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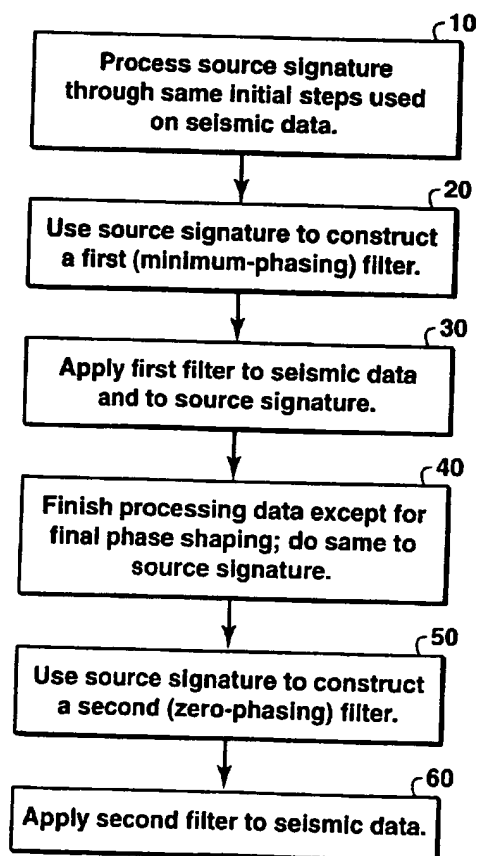
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(54) Title: **PHASE CONTROL OF SEISMIC DATA**



(57) Abstract: Method for controlling the phase spectrum of seismic data to match assumptions inherent in subsequent processing steps. The source signature, after processing with the same initial processing steps used on the data, is used to design a phase control filter that shapes the seismic data to have a minimum phase spectrum or whatever other phase spectrum the subsequent processing algorithms may assume. The processed data is then filtered with a second phase-control filter, also designed using the parallel-processed signature, to shape the data to zero phase or whatever other phase may be desired for interpretation of the data.

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